

CLAIMS:**WHAT IS CLAIMED IS:**

1. A discharge device, which comprises a plurality of discharge electrodes and a
 5 counter electrode facing the plurality of discharge electrodes, for causing a streamer
 discharge to be initiated between both the electrodes by applying a cyclically varying
 voltage to both the electrodes from electric power supply means, wherein: the following
 relational expression is satisfied:

$$f_v \geq f_s$$

- 10 where (f_v) is the frequency of the voltage which is applied to both the electrodes and (f_s) is
 the frequency of the streamer discharge which is generated, in the form of a pulse, between
 both the electrodes.

2. The discharge device of claim 1, wherein:

- 15 if $k = 40[\text{mm/kHz}]$, the following relational expression is satisfied:

$$f_v \geq k/G$$

where (f_v)[kHz] is the frequency of the voltage which is applied to both the electrodes and
 (G)[mm] is the distance between both the electrodes.

- 20 3. The discharge device of claim 1 or claim 2, wherein:

the following relational expression is satisfied:

$$f_v \geq 20[\text{kHz}]$$

where (f_v)[kHz] is the frequency of the voltage which is applied to both the electrodes.

- 25 4. The discharge device of one of claims 1-3, wherein:

the following relational expression is satisfied:

$$V_{p-p} \leq 0.1 \times V_a$$

where (V_a) and (V_{p-p}) are, respectively, the average voltage and the amplitude for the

voltage which is applied to both the electrodes.

5. An air purification device, which comprises a discharge device for causing a streamer discharged to be initiated between a discharge electrode and a counter electrode, for purifying air to be treated by distributing the air to be treated between both the electrodes, wherein:

the aforesaid discharge device is any one of the discharge devices as set forth in claims 1-4.

* * * * *